

## CLAIMS

1. A static eliminator for neutralizing and eliminating static electricity by applying an ultraviolet ray to a static  
5 elimination target, the static eliminator comprising at least one means for applying the ultraviolet ray and the means for applying the ultraviolet ray being formed of an ultraviolet light emitting diode.
- 10 2. A static eliminator according to claim 1 further comprising optical means for condensing the ultraviolet ray from the ultraviolet light emitting diode and applying the ultraviolet ray to the static elimination target.
- 15 3. A static eliminator according to claim 1 further comprising an air nozzle for producing a flow of air ionized by the ultraviolet ray from a side of the ultraviolet light emitting diode toward the static elimination target.
- 20 4. A static eliminator according to claim 1 further comprising a wall member for ejecting ions under ultraviolet irradiation in a position facing at least a part of an optical path extending from the ultraviolet light emitting diode to the static elimination target.
- 25 5. A static eliminator according to claim 4, wherein the wall member includes a photocatalyst or is formed of a photoemissive

member.

6. A static eliminator according to claim 1 further comprising  
a wall member for generating ozone under ultraviolet irradiation  
5 in a position facing at least a part of an optical path extending  
from the ultraviolet light emitting diode to the static  
elimination target.

7. A static eliminator according to claim 1 further comprising  
10 a wall member having a function of absorbing or decomposing ozone  
generated by ultraviolet irradiation in a position facing at  
least a part of an optical path extending from the ultraviolet  
light emitting diode to the static elimination target.

15 8. A static eliminator according to claim 1, wherein a plurality  
of ultraviolet light emitting diodes are mounted to a support  
member disposed to face the static elimination target.

9. A static eliminator according to claim 8, wherein the support  
20 member has a shape and a size corresponding to the static  
elimination target and the ultra violet light emitting diodes  
are disposed throughout a face of the support member.

10. A static eliminator according to claim 8, wherein the support  
25 member is in a ring shape and the plurality of ultraviolet light  
emitting diodes are mounted to an inner face of the support member  
to thereby concentrate application of the ultraviolet rays from

the ultraviolet light emitting diodes on the static elimination target positioned on a central axis of the support member.

11. Astatic eliminator for neutralizing and eliminating static  
5 electricity by applying an ultraviolet ray to a belt-shaped static elimination target, the static eliminator comprising an irradiating head formed by mounting a plurality of ultraviolet light emitting diodes to a bar-shaped support member and the  
10 irradiating head being disposed in such a direction as to cross the static elimination target in a width direction and being movable with respect to the static elimination target along the target.

12. Astatic eliminator for neutralizing and eliminating static  
15 electricity by applying an ultraviolet ray to a rotationally-symmetric inner or outer peripheral face of a static elimination target, the static eliminator comprising an irradiating head formed by mounting a plurality of ultraviolet light emitting diodes to a support member movable along the inner  
20 or outer peripheral face.